GDAŃSK UNIVERSITY OF TECHNOLOGY

Subject card

Subject name and code	DIPLOMA LABORATORY II, PG_00064366		
Field of study	Corrosion		
Date of commencement of studies	February 2025	Academic year of realisation of subject	2025/2026
Education level	second-cycle studies	Subject group	Optional subject group Subject group related to scientific research in the field of study
Mode of study	Full-time studies	Mode of delivery	at the university
Year of study	2	Language of instruction	Polish
Semester of study	3	ECTS credits	5.0
Learning profile	general academic profile	Assessment form	assessment
Conducting unit	Department of Corrosion and Electrochemistry -> Faculty of Chemistry -> Faculties of Gdańsk University of Technology		
Name and surname of lecturer (lecturers)	Subject supervisor	dr hab. inż. Andrzej Miszczyk	
	Teachers		

Lesson types

Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
Number of study hours	0.0	0.0	75.0	0.0	0.0	75

E-learning hours included: 0.0

Learning activity and number of study hours

Learning activity	Participation in didactic classes included in study plan	Participation in consultation hours	Self-study	SUM
Number of study hours	75	15.0	35.0	125

Subject objectives

formulating a hypothesis, developing a research plan, carrying out research, analyzing the results and writing a thesis

Learning outcomes

Course outcome	Subject outcome	Method of verification
[K7_K04] is aware of his/her responsibility for taking decisions, respecting and developing principles of professional ethics and acting in accordance with these principles	The student demonstrates awareness of responsibility for decisions made and actions taken in the field of corrosion research and material protection, adheres to the principles of professional ethics, scientific integrity, and good laboratory practice, and feels obligated to act responsibly in the interests of technical safety, environmental protection, and infrastructure stability.	[SK5] Assessment of ability to solve problems that arise in practice [SK3] Assessment of ability to organize work
[K7_U07] includes ethical issues and regulations in research planning and design of products and processes	The student is able to identify ethical issues related to corrosion research, material protection, and technical installation operation, and take them into account in professional decisions and actions.	[SU1] Assessment of task fulfilment
[K7_U05] uses computer methods for data analysis, modelling and simulation uses instrumental methods applied to corrosion and related fields	The student is able to use computer methods of data analysis, modeling, and simulation in solving corrosion and related problems.	[SU4] Assessment of ability to use methods and tools
[K7_W03] select appropriate apparatus and data analysis methods, including statistical and modelling, useful for solving scientific and technological problems	The student knows what equipment and data analysis method to choose to solve a scientific or technological problem.	[SW3] Assessment of knowledge contained in written work and projects

Subject contents

Course content – laboratory
Problem analysis. Selection of research methods and methods for analyzing results. Collection of literature related to the topic of the work. Review of the collected literature. Conducting measurements. Analysis of results. Substantive and editorial preparation of the work.

<table>
<tr><td>Prerequisites and co-requisites</td><td colspan="3">Knowledge of subjects realized during studies, experience in the field of laboratory work and safety rules during laboratory work</td></tr>
<tr><td>Assessment methods and criteria</td><td colspan="3"><table><tr><th>Subject passing criteria</th><th>Passing threshold</th><th>Percentage of the final grade</th></tr><tr><td>evaluation of the performance of research and the written thesis</td><td>60.0%</td><td>100.0%</td></tr></table></td></tr>
<tr><td rowspan="3">Recommended reading</td><td>Basic literature</td><td colspan="2">articles from journals: Progress in Organic Coatings, Corrosion Science</td></tr>
<tr><td>Supplementary literature</td><td colspan="2">books from the Main Library of the Gdańsk University of Technology</td></tr>
<tr><td>eResources addresses</td><td colspan="2"></td></tr>
<tr><td>Example issues/ example questions/ tasks being completed</td><td colspan="3">analysis of test results obtained by impedance spectroscopy, evaluation of barrier properties of coatings, interpretation of the results of coating adhesion to the substrate</td></tr>
<tr><td>Practical activites within the subject</td><td colspan="3">Not applicable</td></tr>
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